



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF MAILING

I hereby certify that this INFORMATION DISCLOSURE STATEMENT and documents submitted therewith are being deposited with the United States Postal Service as first class mail, postage prepaid thereon, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below.

Nancy Malsich
Nancy Malsich

5/16/05
Date

Applicant: Sharpless, et al.)
) Group: Unassigned
Serial No.: 10/516,671)
) Confirmation No.: 5282
Filed: November 30, 2004)
) Examiner: Unassigned
For: COPPER-CATALYSED LIGATION)
OF AZIDES AND ACETYLENES) Our Ref.: TSRI 890.1
)

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In recognition of their continuing duty to disclose pursuant to 37 CFR §1.56, Applicants hereby submit the present Information Disclosure Statement and accompanying PTO Form 1449 in compliance therewith.

Applicants understand that the interpretation given to each reference may differ from one individual to another. The PTO is therefore encouraged to independently examine the disclosed references. While the references provided in this Information Disclosure Statement may be material pursuant to 37 CFR §1.56, it shall not be construed to be an admission that the cited information is, or is considered to be, material to patentability

unless specifically designated as such.

Applicants are filing the present statement pursuant to 37 CFR §1.97(b) insofar as this statement is being filed within three months of the filing of the application and/or before the mailing date of a first Office Action.

Also, in accordance with 37 CFR §1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or, that if made, any search was complete or exhaustive, or that no other material information as defined in 37 CFR §1.56 exists.


Respectfully submitted,

May 16, 2005
Date

Donald G. Lewis
Donald G. Lewis, Reg. No. 28,636

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. TSRI 890.1		SERIAL NO. 10/516,761	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Sharpless, et al.			
		FILING DATE 11/30/2004		GROUP Not assigned	



U.S. PATENT DOCUMENTS							
EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE

FOREIGN PATENT DOCUMENTS							
EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

	1	Mock, et al., "Catalysis by Cucurbituril. The Significance of Bound-Substrate Destabilization for Induced Triazole Formation", <u>J. Org. Chem.</u> 54: 5302-5308 (1989)
	2	Zanirato, P. "Reactivity of Aryl and Heteroaryl Azides with Vinylsilane and Alkynylsilane. Formation of C-Silylated 1,2,3-Triazolines and 1,2,3-Triazoles", <u>J. Chem. Soc. Perkin Trans. 1</u> : 2789-2796 (1991)
	3	Padwa, A. "Intermolecular 1,3-Dipolar Cycloadditions", in <u>Comprehensive Organic Chemistry</u> ; Trost, B.; ed.; pp. 1069-1109 (1991)
	4	Hlasta, et al., "Steric Effects on the Regioselectivity of an Azide-Alkyne Dipolar Cycloaddition Reaction: The Synthesis of Human Leukocyte Elastase Inhibitors", <u>J. Org. Chem.</u> 59: 6184-6189 (1994)
	5	Clarke, et al., "Preparation and pyrolysis of 1-(pyrazol-5-yl)-1,2,3-triazoles and related compounds", <u>J. Chem. Soc. Perkin Trans. 1</u> : 1799-1804 (1997)
	6	Booth, et al., "Efficient Recognition-induced acceleration of a [3+2] dipolar cycloaddition reaction", <u>Tetrahedron Lett.</u> 39: 6987-6990 (1998)
	7	Gothelf, et al., "Asymmetric 1,3-Dipolar Cycloaddition Reactions", <u>Chem. Rev.</u> 98: 863-909 (1998)
	8	Saxon, et al., "Cell Surface Engineering by a Modified Staudinger Reaction", <u>Science</u> 287: 2007-2010 (2000)
	9	Cao, et al., "Molecular Shuttles by the Protecting Group Approach", <u>J. Org. Chem.</u> 65: 1937-1946 (2000)
	10	Schindler, S. "Reactivity of Copper(I) Complexes Towards Dioxygen", <u>Eur. J. Inorg. Chem.</u> : 2311-2326 (2000)
	11	Kolb, et al., "Click Chemistry: Diverse Chemical Function from a Few Good Reactions", <u>Angew. Chem. Int. Ed. Engl.</u> 40: 2004-2021 (2001)
EXAMINER		DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

	12	Kiick, et al., "Incorporation of azides into recombinant proteins for chemoselective modification by the Staudinger ligation", <u>Proc. Natl. Acad. Sci. USA</u> 99: 19-24 (2002)
	13	Chen, et al., "Selectivity in an Encapsulated Cycloaddition Reaction", <u>Org. Lett.</u> 4: 327-329 (2002)
	14	Lewis, et al., "Click Chemistry In Situ: Acetylcholinesterase as a Reaction Vessel for the Selective Assembly of a Femtomolar Inhibitor from an Array of Building Blocks", <u>Angew. Chem. Int. Ed. Engl.</u> 41: 1053-1057 (2002)
	15	Tornøe, et al., "Peptidotriazoles on Solid Phase: [1,2,3]-Triazoles by Regiospecific Copper(I)-Catalyzed 1,3-Dipolar Cycloadditions of Terminal Alkynes to Azides", <u>J. Org. Chem.</u> 67: 3057-3064 (2002)
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Date Mailed: May 16, 2005
DGL/nlb
Our Ref: TSRI 890.1
TSR 0786P

Applicant (s): Sharpless, et al.
Application No.: 10/516,671
Date Filed: November 30, 2004
Title of Invention: COPPER-CATALYSED LIGATION OF AZIDES
AND ACETYLENES

Enclosed:

- Information Disclosure Statement (2 pages)
- Form PTO-1449 with 15 References (2 pages)
- Certification of Mailing (included on IDS)

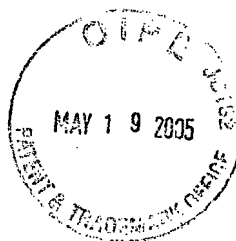
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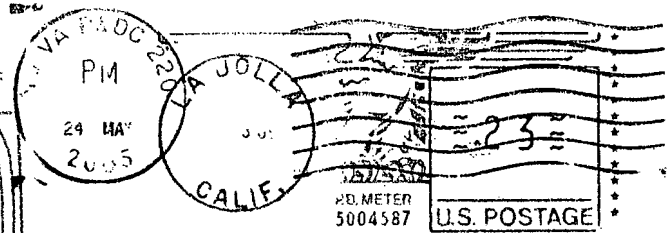
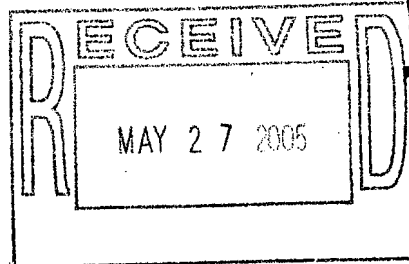
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